Work Orde		7003				*870)N3*			,				Page 1
Revision ID:	D209-669-		Add			Accept	*N90	004	010 ()* s	Setup	Start Stop	*N.	S1* S2*
	7/09/12	Start Q	oty: 1.00 Oty: 1.00		*1* *1*		Cust Ite Custom						Į VI	
Approvals:	Process F	Plan:('Y		2107/0	•		Date:		F	Run	Start Stop	*N *N	R1* R2*
Sequence ID/ Work Center II		Operati Descrip	tion			Set Up/ Run Hours	Tool I	D Tool	# Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
Draw Nbr	R	evision Nba	•											
D2906	R	ev B (DEO)								-)	10		
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*110 *11 0 *		Skidtubes				0.00	·							· ·
Skidtubes			Memo	nat'l D2500-1-	100 for domain	0.00								
Skidtubes			-	t holes using d		, DT8711-2 & DT8711-	3 (Do not use	5M)	or bo	1				
			-Open hol	es to 0.500" as	per Dwg D290	6 without cutting fluid		19						
			-Deburr a	nd blow out all	chips from									
			-Acid etcl	n and Alodine t	ube per QSI 00	5 4.1		- 7,	K 1	2.7	9			

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W/O:			WORK ORDER CHAN						GES							
DATE	STEP	PRO	OCEDURE CH	ANGE	E	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
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Part No	:	PAR #:	Fault Cate	egory:	NCR:	Yes N	10 DQ /	A:	_ Date: _							
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NCR:			WORK ORE	DER NON-CONFOR	MANCE (I	NCR))									
DATE	STEP	Description of NC			ection B		Verific	ation	Approval	Approval						
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Skidtubes

-Bond web in place per QSI 015. Allow 12 Hrs. cure time before cutting

Pick:

Qty Part Number Description Batch

A/R Sikaflex-291

Sikaflex expire date: 13-4 Start Time: 4415 Date:

Fin Time:

pick: Qty

P/N

description D2926-3 Web

Date:

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DATE	STEP	Description of NC		Correctiv			Verific	cation	Approval	Approval
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W/O:			WORK ORDER CHA				ANGES					
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Part No		PAR #:		Fault Ca	tegory:		NC	R: Yes	No DQ	A :	Date:	1
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NCR:				ORK OR	DER NON	I-CONFC	RMANC	E (NCF	R)			
DATE	STEP	Description of NC Section A	;	Initial	Correctiv Acti	on Descrip	Section B	Sign 8	Verific Secti		Approval Chief Eng	Approval QC Inspector
		事業等 意。		Chief Eng		Chief Eng		Date				
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Work Order ID 87003 *87003* Page 4 July 9, 2012 11:41:22 AM Accept *N900040100* Setup Start Item ID: D209-669-043 **Revision ID:** Stop Item Name: Replacement Skidtube *1* Start Qty: 1.00 7/09/12 **Start Date: Cust Item ID:** Required Date: 7/20/12 Req'd Qty: 1.00 **Customer:** Reference: Run Process Plan: Date: Tooling: Approvals: Stop QC: _____ Date: ____ SPC (Y/N): Date:___ Sequence ID/ Tool ID Too! # Plan Accept Reject Reject Insp. Set Up/ Operation Work Center ID Description Code Qty Qty Number Stamp Run Hours 0.00 170 Large Fab *170* 0.00 Skidtubes -Drill holes for wearplates using DT8217 Open holes to 19/64", adjust stopper DC 12/07/12 Skidtubes not to hit web.Deburr -Drill pilot holes for aft & fwd cap using DT8215 open holes to #6" Deburr

190

QC5- Inspect part completeness to step on W/O

0.00

190

Quality Control

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-Drill pilot holes for Tow ring using DT9555 , open to .640"and Deburr

12/05/12

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	Johnson											
W/O:			WORK ORDER CHANGES									
DATE	STEP	PRO	OCEDURE CHA	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
Part No		PAR #:	Fault Cate	egory:	NCR: Yes	No DQ	A:	Date: _				
	Re	esolution:	Disposition	on:	QA: N/C C	losed:		Date: _				
NCR:	R: WORK ORDER NON-CONFORMANCE (NCR)											
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	Sign o		cation on C	Approval Chief Eng	Approval QC inspector			

Work Ord <i>July 9, 2012 11.</i>		003		*870)n3*			Page 5
Item ID: Revision ID: Item Name:	D209-669-0			Accept	*N900040100)* Setup	p Start Stop	*NS1* *NS2*
Start Date: Required Date: Reference:	7/09/12	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item ID: Customer:			יייאו
Approvals:		an:	Date:	Tooling: SPC (Y/N):	Date:	Run	Start Stop	*NR1* *NR2*
Sequence ID/ Work Center II 200 *200* HandFinish Hand Finishing	D	Operation Description Pressure Wash per QSI00 Memo	05 4.3	Set Up/ Run Hours 0.00	Tool ID Tool # Plan Code	-		teject Insp. Tumber Stamp ノみ-アッろ
210 *210 *210* Powdercoat Powder Coating	241	White Gloss(Ref:4.3.5.1) Memo START TIM OVEN TEM FINISH TIM	16:	0.00		lχý		M/L 12/07/13
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	Work Order ID 87003 Yuly 9, 2012 11:41:22 AM			*87003*							Page
Item ID: Revision ID:	D209-669-0	43		Accept	*N900	040	100)* s	etup Sta	IV	S1*
Item Name:	Replacement	Skidtube							Sto	^p *N	S2*
Start Date: Required Date: Reference:	7/09/12 7/20/12	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					
Approvals:	Process Plan	an:	Date:	Tooling:	D:	ate:		F	tun Sta Sto	"IXI	R1*
	QC:		Date:	_ SPC (Y/N):	Da	ate:			310	* *N	R2*
Sequence ID/ Work Center II 230)	Operation Description		Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
230 HandFinish		HandFinishing Memo		0.00				16	<u> </u>		nlo-4
Hand Finishing		insert holes A/R Sika Sikaflex exp2-Coat D25 per Dwg D2	before installing wearplate aftex-291 11713 bire date: 1203	Oum Jelly and install on D2							

5-Wing Walk as per Dwg D2906 and QSI 005 4.4 Batch:

W/O:			V	ES	, <u></u>			
DATE	STÉP	PRO	CEDURE CH	IANGE	Ву	Date Qt	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Ca	tegory:	NCR: Yes	No DQA: _	Date: _	
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DATE	STEP	Description of NC		Corrective Action Section		Verificatio	n Approval	Approval
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Work Orde July 9, 2012 11		003		*870)03*						Page 7
Item ID: Revision ID:	D209-669-04	43		Accept	*N900	040	100)* 5	Setup Star	171	S1*
Item Name:	Replacement S	Skidtube							Stop	*N	S2*
Start Date:	7/09/12	Start Qty: 1.00	*1*		Cust Item	ID:					
Required Date: Reference:	7/20/12	Req'd Qty: 1.00	*1*		Customer:						
Approvals:	Process Pla	ın:	Date:	Tooling:	D	ate:	_	J	Run Star	1/1	R1*
T. P. C.					D	ate:			Stop	' *N	R2*
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
240		QC5- Inspect part compl	eteness to step on W/O	0.00							
240		Memo		0.00	2/03/17						
Quality Control			Cap, Fwd Step and Wing ects per QSI 024	Walk of work to Current	Step Inspect for						
250				0.00					0	,	_
250		Packaging							1010	<u> </u>	26
Packaging		Memo		0.00							
Packaging			pack for shipping as per								
260		QC21- Final Inspection -	- Work Order Release	0.00						101.	1/180
260		Memo		0.00						10/	1110

Quality Control

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July 9, 2012-11:41:21 AM

Work Order ID:

87003

Parent Item:

D209-669-043

Parent Item Name:

Replacement Skidtube

Start Date: 7/09/12

Required Date: 7/20/12

Start Qty: 1.00

Required Qty: 1.00

Comments:

new IPP 08.02.13 LL, verified by: DD
IPP Rev:B remove DT # in seq140 DD 10.03.10 Verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measur		Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4202-1		Manufactured	No				Each	165.0000	0	$\frac{19}{2}$	1-1	<u> </u>	
Spacer				Location	B86663	Loc Qty	<u>]</u>	Loc Code		$\frac{1}{2}$	107/1	<u> </u>	
				LG		:25							
					1727	5							
					3263	3			-				
					1763	117							
				LG002	2006	40							
	•				3806 9810	6 34							.t.
D2500-1-190 Ext'n -`I' Beam Tube 4"		Manufactured	No	73	7610	110	Each	139.0000	1	SA	12	<u>~~7-6</u>	<u> </u>
				Location		Loc Qty	ļ	Loc Code					
				HALL		139				<u> </u>			
					1777	9			_(•	
					0061	38							
				85	5483	92							
D2926-3 Web		Manufactured	No			110	Each	15.0000	1	SAD		1-0-	7.09
1				Location		Loc Qty]	Loc Code				•	(
\/				LG		15							
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					1950	2							
					5263	4		O 000					
(86	5446	3		B86	33				

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Part No		PAR #:	Fault Cate	gory:	NCR: Yes	No DQA:	Date: _	·
			Disposition:					
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DATE	STEP	Description of NC		·	ction B	Verification	Approval	Approval
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Work Order ID:	87003								
Parent Item:	D209-669-043						Start Dat	te: 7/09/12	Required Date: 7/20/12
Parent Item Name:	Replacement Skidtu	be					Start Qt	y: 1.00	Required Qty: 1.00
D2855		Manufactured	No		230	Each	3.0000	2 Mr	12/02/16
Cap				To a setting			LacCada		
				Location	Loc Qty		Loc Code		
				FP002	3		B84952	XZ	
				65519	2				
				73347	1			 _	
AN3-5A Bolt		Purchased	No		230	Each	779.0000	4 31	12/07/16
				Location	Loc Qty		Loc Code		
				ST350	779				
				115371	46				
				117423	121				
				119355	200				
				120187	406			X.l	
				121185	6				
AN960JD10L	NAS1149D0332J	Purchased	No		230	Each	0.0000	4 (1) 4 H	1 mostre
Washer	M						MILLIOU	(X-u) -)`	7 (1104)
ALS7-1032-130 — Insert	*	Purchased	No		230	Each	1,978.0000	44	407/16
				Location	Loc Oty		Loc Code		
				ST280	51				
				117717	27		11121EH4	<u> </u>	
				118966	22				
				119775	2				
				ST282	1927				
				119530	73				
				120181	12				
				121444	1842				

DATE STEP PROCEDURE CHANGE By Date Qty C	Approval Chief Eng / Prod Mgr QC Inspector
	Date:
Part No: PAR #: Fault Category: NCR: Yes No DQA:	
Resolution: Disposition: QA: N/C Closed:	_ Date:
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DATE STEP Description of NC Corrective Action Section B Verification A	Approval Approval
	Chief Eng QC Inspector
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Work Order ID:	87003									
Parent Item:	D209-669-043						Start D	ate: 7/09/	12	Required Date: 7/20/12
Parent Item Name:	Replacement Skidtu	ibe				Start Qt)ty: 1.00		Required Qty: 1.00
AN3C4A BOLT		Purchased	No		230	Each	4,040.0000	44	H 44	11/07/16
			Locati	<u>on</u>	Loc Qty		Loc Code			
			ST350		4040					
				120187	31					
				120521	. 28					
				120769	38					
				121205	111					
				121556	8					
				122151	3824				X d q	
AN960C10L washer	NAS1149C0332R	Purchased	No		230	Each	21.0000	44	H 1 44	11/07/16
7			Locat	<u>on</u>	Loc Oty		Loc Code			
			ST		21		1 122063		X44	
				107534	21	7-	((() () ()			
D2594-3 O-Ring, 205 Skidtube		Manufactured	No		230	Each	2,228.0000	14	JU 14	102/16
C,			Locat	<u>on</u>	Loc Qty		Loc Code			
			FP001		2228					
			1.001	65518	41			30.7.		
				79496	984					
				79573	50					-
				79755	1153				V (4	

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DATE	STEP	Description of NC			tion B	Verific	cation	Approval	Approval
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Work Order ID:	87003									
Parent Item:	D209-669-043						Start Da	ate: 7/09	/12	Required Date: 7/20/12
Parent Item Name:	Replacement Skidtube						Start Q	2ty: 1.00		Required Qty: 1.00
D2594-1 Plug, 205 Skidtube	Manufactured	No			230	Each	1,363.0000	14	JU 14	10216
			Location		Loc Qty		Loc Code			
			FP001		84	ļ				
				73401	30					
				74442	6	,				
				79495	48	3				
			FP002		429)				
				85454	429)				
			FP-A	•	850)				
				73401	()				
•				78590	23					
				84951	410			-	X [ŋ	
				86391	417					
D3564-9 Wearshoe	Manufactured	No			230	Each	28.0000	1	للا_	0/07/16
V			Location		Loc Qty		Loc Code			
			FG		4	l ,	B 85474			
				76950	2	ا ا	13 85 T 14			
			FP001		24	ļ				
				67590	4	ļ.				
				69943	1					
				82255	1					
				84870	18					
D3564-11 Wearshoe	Manufactured	No			230	Each	26.0000	1	<u> </u>	1103/16
			Location		Loc Qty		Loc Code			
			FG		4	5				
				77056	4	5				
			FP001		21	ı				
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				84871	2			-		

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July 9, 2012 11:41:22 AM

Page 5

Work Order ID:	87003 D209-669-043							Stort	Date: 7/09/12	Required Date: 7/20/12
Parent Item: Parent Item Name:	Replacement Skidtul	ha							rt Qty: 1.00	Required Qty: 1.00
										-
D3564-5 Wearshoe		Manufactured	No			230	Eacl	n 49.0000	1 11	12/02/16
				Locatio	<u>n</u>	Loc Qt	¥	Loc Code		
				FG			2			
					34806		2			
				FP001			47			
					80343		1			
					82254		1			
					84869		23		X \	
					85475		22			
D3566-1 Gasket		Manufactured	No			230	Eacl	93.0000	² yy ²	(1) 07/16
Jasket				Locatio	<u>n</u>	Loc Qt	¥	Loc Code		
				FP		-	32			
				FP002			25			
					68924	_	2			
					80919		2			
					81619		3			
					84879		61		x Z	
					86240		25			
D3566-5 Gasket		Manufactured	No			230	Eacl	64.0000	1 Ju	1107/14
				Locatio	<u>n</u>	Loc Qt	¥	Loc Code		
				FP			26			
					82275		1			
					86241		25			
				FP002			38			
					80374		1			
					82274		6			
					84881		31			

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NCR:			WORK ORDI	ER NON-CONFORM	ANCE (NCI	7)						
DATE	STEP	Description of NC	Description of NC Corrective Action				ation	Approval	Approval			
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QTY	QTY	Part Number	Description
-041	-043		
Х		D2906-041	SKIDTUBE ASSEMBLY
ļ	X	D2906-043	SKIDTUBE ASSEMBLY
1	11	D2500-1-190	EXTRUSION
22	19	D2579	CROSS BOLT SPACER
12	14	D2594-1	PLUG
12	14	D2594-3	O-RING
2	2	D2855	AFT CAP
1		D2926-1	WEB
	1	D2926-3	WEB
1	1	D3564-9	WEARSHOE (REPLACES D2577-1)
1	1	D3564-11	WEARSHOE (REPLACES D2577-3)
1	1	D3564-5	WEARSHOE (REPLACES D2577-5)
. 1		D3564-15	WEARSHOE
2	2	D3566-1	GASKET
1	1	D3566-5	GASKET
1		D3566-15	GASKET
50	44	ALS7-1032-130	INSERT
1		or AKS7-1032-130	
1		or AKS4-1032-130	
L		or ALS4-1032-130	
50	44	AN3C4A	BOLT
4	4	AN3-5A	BOLT
50	44	AN960C10L	WASHER
4	4	AN960JD10L	WASHER

GENERAL NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 2) LENGTH OF D2500-1 EXTRUSION BEFORE BENDING = 190 INCHES.
- 3) INSERT D2926-1/-3 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241/291 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- 4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 5) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 6) USE DART DRILL TEMPLATE DT2906-041T1 (D2906-041) OR DT2906-043T1 (D2906-043) TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION C-C AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/291.
- 7) WELDING TO BE DONE PER DART QSI 004.

DATE

8) FINISH:

ACID ETCH, ALODINE PER DART QSI 005 4.1 PRIOR TO INSERTING D2926-1/-3 WEB. POWDER COAT ASSEMBLY WHITE (REF 4.3.5.1) PER DART QSI 005 4.3 BLACK ANTI-SKID PAINT AS INDICATED PER DART QSI 005 4.4

 INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (12 PLACES).

07.08.21

10) ALL DIMENSIONS ARE IN INCHES.

PELEASED

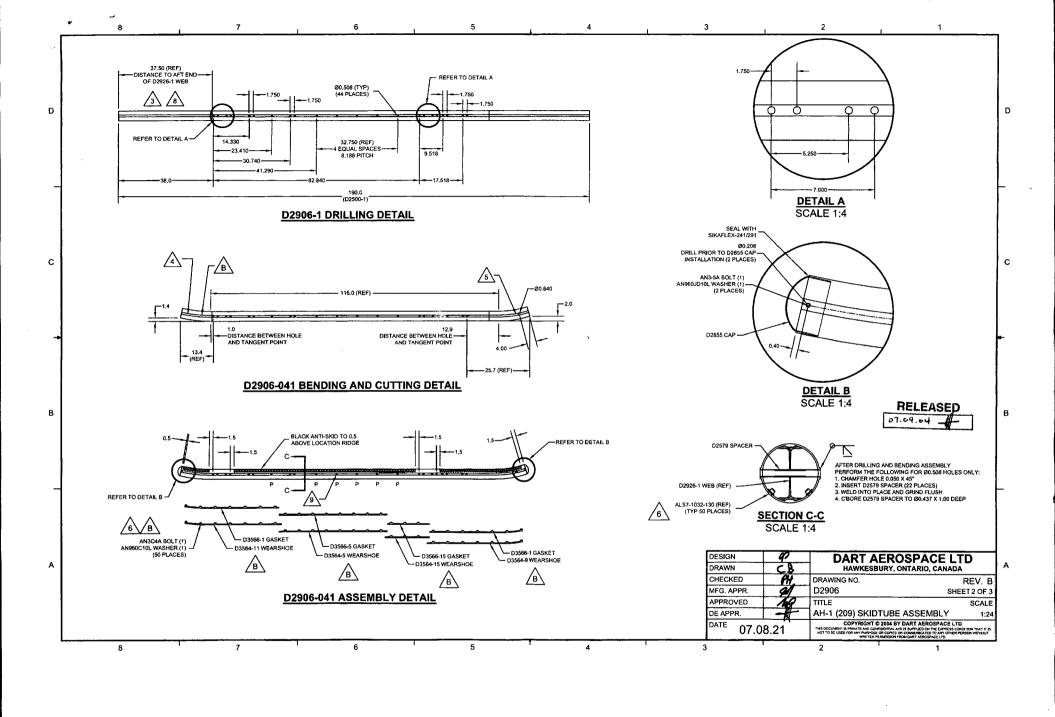
В	ADD ST CHANG PG 1: A PG 2 C PG 3 C	E DRAWING F FAINLESS STE SE WEARPLAT DD NOTE 10; 7: REMOVE AI 3: CORRECTE 7: 38 PLACES	СВ	07.08.21	
Α	NEW IS	SSUE	CP	04.06.22	
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APPRO\	/ED	199	TITLE		SCALE
DE APPR.			AH-1 (209) SKIDTUBE ASSI	EMBLY	' NTS

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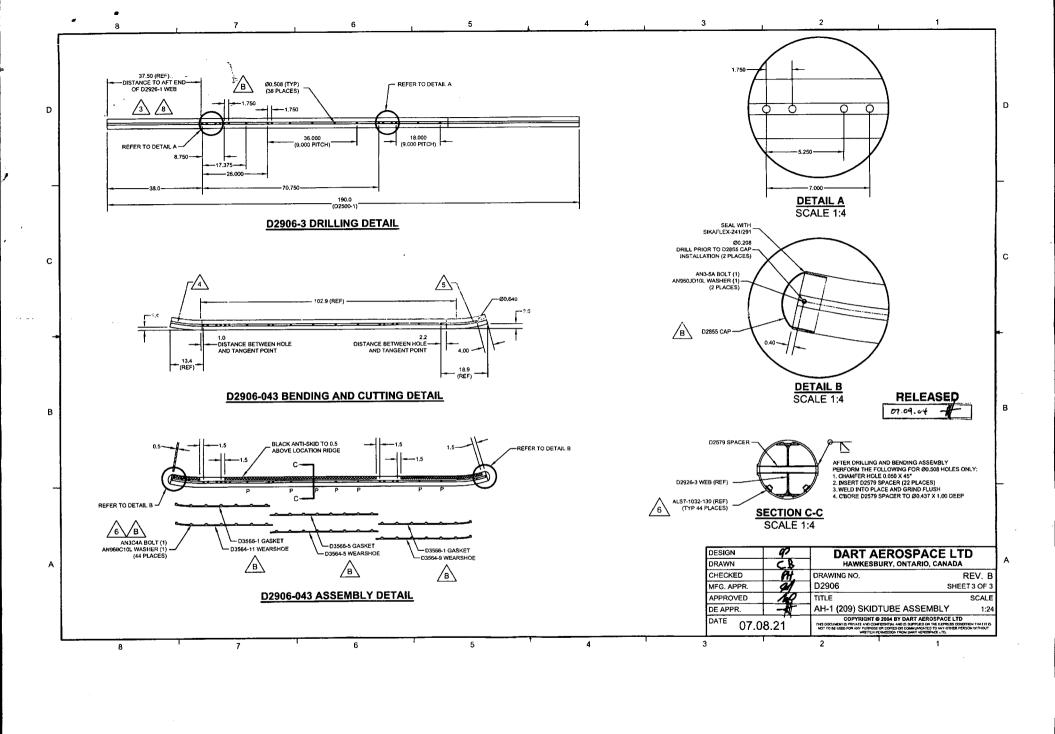
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CLIA/07/09 W10:87003

W/O:			W	ORK ORDER CHANGE	S					
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		Section A	Initial Chief Eng	Action Description Chief Eng	Sign a		on C	Chief Eng	QC Inspector	
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DRAWING	NO.	TITLE		REV. B	DART	AEROSPACE	LTD	D.E.O. NO.		SHEET NO	0.	SCALE
D2906		AH-1 (209) S	KIDTUBE /	ASSEMBLY	ENGI	NEERING ORI	DER	D2906-B-1		SHEET 1 O	<u>5</u> 1	NTS
DRAWN	A.P		CHECKED	4	MFG. AP	PR. E	APP	ROVED JA)	DE APPR.	7	
DATE	12.05.	28	DATE 12	·05. Z8	DATE	12.05.31	DAT	E 12.05.3	1	DATE 12.	25-31	

PURPOSE:

CHANGE ALL C'BORED WELDED CROSSBOLT SPACERS TO SWAGED SPACERS

CHANGE:

PARTS LIST IS AMENDED AS FOLLOWS:

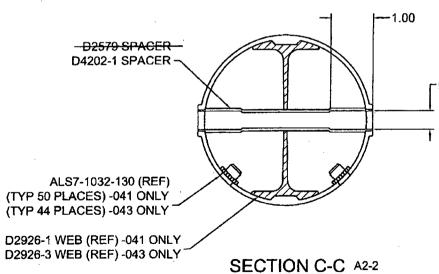
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QT -04	Y QTY 1 -043	PART NUMBERS	DESCRIPTION
22	19	D2579	CROSS BOLT SPACER

IS

		 	
1 22	40	1 DAODO 4	COACED
1 22 1	13	D4202-1	ISPACER

SECTION C-C ON SHEETS 2 & 3 ARE AMENDED AS FOLLOWS FOR ALL HOLES THAT WERE ORIGINALLY C'BORED:



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Ø0.437 SWAGE

AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.508 HOLES ONLY:

- -1- CHAMFER HOLE 0.050 X 45°-
- -2. INSERT D2579 SPACER (20 PLACES)
- -3. WELD INTO PLACE AND GRIND FLUSH-
- 4. C'BORE D2570 SPACER TO Ø0.437 X 1.00 DEEP-
- 1. INSERT D4202-1 SPACER, 22 PL (-041) OR 19 PL (-043)
- 2. SWAGE TO Ø0.437 X 1.00 DEEP PER QSI 002
- 3. TRIM / GRIND FLUSH PER QSI 002

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		WO	RK ORDER CHANGE	S		· ·	
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Res	olution:	Disposition	n:	QA: N/C C	osed:	Date: _	
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